## LITHOLOGIC LOG

Page <u>1</u> of <u>8</u>

LOCATION MAP:

BLM-5-527 •

BLM-8-418•

BLM-1-455 ●

NOT TO SCALE

NORTH

NW 1/4 NW 1/4 SW 1/4 NW 1/4 S 33 T 205 R 3E

| SITE | ID:  | NASA-WS | TF     | LOCA | TION | ID: | BLM-8-418 | <del> </del> | _ |
|------|------|---------|--------|------|------|-----|-----------|--------------|---|
| SITE | COOR | DINATES | (ft.): |      |      |     |           |              |   |
|      |      |         |        | _    |      |     |           |              |   |

N 231423.04 \_\_\_\_ E <u>403768.31</u>

GROUND ELEVATION (ft. MSL): 4556.33 (BRASS CAP) STATE: NEW MEXICO COUNTY: DOÑA ANA

DRILLING METHOD: AIR-FOAM ROTARY

DRILLING CONTR.: LARJON DATE STARTED: 13 JUNE 1988 DATE COMPLETED: 28 JUNE 1988

FIELD REP.: P. EGAN, C. WERDEN, S. DUBYK

COMMENTS: Total Depth (TD) = 452'. 14 3/4" borehole 0'-105', 9 7/8" borehole 105'-TD. Depth to bedrock = 418' (qeophysical loqs). Borehole drift = 23'.

| LOCAT | ION DESCRIPTION: |                             | iods). Borenote drift - 25. |         |  |  |  |  |
|-------|------------------|-----------------------------|-----------------------------|---------|--|--|--|--|
| Depth | Visual % Lith    | Drilling Time<br>Scale: min | Sample Type<br>and Interval |         | Lithologic Description   |  |  |  |
| 5     |                  | 9.5                         | 0'-432'<br>cuttings         | 0'-105' | SURFICIAL AND CLAY-RICH ALLUVIUM: The predominant color of the interval is pale yellowish brown (10 YR 6/2). Cuttings are large (up to 1 inch) blocky fragments in a clay/silt matrix. The lithology is an unconsolidated, poorlysorted, clayey, silty gravelly alluvium. The interval is very clay and silt rich. |  |  |  |
| 10    | +++++/////       | 21                          |                             |         | Sandy soil is present at surface and decreases towards bottom of interval.  Most of the fines lost when samples were washed.Clasts consist of limestone, rhyolite, siltstone, quartzite, and caliche.  |  |  |  |
| 15    |                  | 6                           |                             | 0'-5'   | Sample is mostly clayey, silty sand with few lithic clasts.  |  |  |  |
| 20    | ++++00///VV      | 5                           |                             | 10'-15' | Significant decrease in cutting size.<br>Cuttings are uniform in size and shape.<br>Bit chattering and jumping at this<br>interval. Presumed boulder present   |  |  |  |
| 25    | THTPICOVIV       | 4<br>6-<br>6-               |                             | 15'-35' | Clay present in amounts < 10%.   |  |  |  |
| 30    | ++++++\v\ō//:    | 9 4<br>19 4                 | ,                           |         |  |  |  |  |
| 35    | +++++vv///       | 3                           |                             | 30′-35° | Clast size increases to 2 inches.  |  |  |  |
| 40    |                  | 8 3<br>8 3                  |                             | 35'-50' | Clay-rich zone present.  |  |  |  |
| 45    |                  | 3<br>9<br>9                 |                             |         |  |  |  |  |
| 50    |                  | 4                           |                             | 50'-60' | Clay percentage is gradually lessening.  |  |  |  |